

Section II - Soil and Site Information

Hydric Soil Interpretations For Aroostook County, Southern Part

Definition of Hydric Soil

A hydric soil is a soil that is saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part. The following criteria reflect those soils that meet this definition.

Wetlands represent the collection of aquatic or semi aquatic habitats commonly referred to as marshes, swamps, and bogs. The U.S. Natural Resources Conservation Service, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers and the U.S. Environmental Protection Agency define wetlands by the presence of wetland vegetation (hydrophytes) and hydrology (degree of flooding and/or soil saturation) and by reference to wet soils (hydric soils). The prevalence of hydrophytes and the presence of wet soil reflect the long-term hydrology and therefore, are useful indicators of wetland. Some of the benefits of wetlands include, waterfowl breeding, habitat for waterfowl and other birds, flood control, water quality, shoreline stabilization and others.

If wetlands are identified as a critical resource, then a good first step would be to inventory the extent of hydric soils that were mapped in a soil survey.

It is important to remember that because of map scale very small areas of hydric soils are often not shown on the soil survey. The soil survey provides a general location of hydric soils; however, it is necessary that the exact wetland boundary be located in the field. When the boundary is not clear, consult with technical experts. The publications Hydric soils of New England and Federal Manual for Identifying and Delineating Jurisdictional Wetlands provide a more detailed discussion on hydric soils as well as on-site identification of wetland boundaries. Other sources of wetland information are the U.S. Fish and Wildlife Service, National Wetland Inventory Maps and the Maine Department of Environmental Protection Inland Wetland Maps.

Hydric Soil List

Hydric soils are developed under conditions sufficiently wet to support the growth and regeneration of hydrophytic vegetation. The listing available below includes phases of soil series that may or may not have been drained. Some soil series, designated as hydric, have phases that are not hydric depending on water table, flooding, and ponding characteristics.

The list will have a number of agricultural and nonagricultural applications. These include assistance in land-use planning, conservation planning, and assessment of potential wildlife habitat. An area that meets the hydric soil criteria must also meet the hydrophytic vegetation and wetland hydrology criteria in order for it to be classified as a jurisdictional wetland (See the "Corps of Engineers Wetlands Delineation Manual", 1987).

Hydric Soils List

Aroostook County, Maine, Southern Part

The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation.

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
CgA: Caribou gravelly loam, 0 to 2 percent slopes	Caribou	No	---	---	---	---	---
CgB: Caribou gravelly loam, 2 to 8 percent slopes	Caribou	No	---	---	---	---	---
CgC: Caribou gravelly loam, 8 to 15 percent slopes	Caribou	No	---	---	---	---	---
CgD: Caribou gravelly loam, 15 to 25 percent slopes	Caribou	No	---	---	---	---	---
CgE: Caribou gravelly loam, 25 to 45 percent slopes	Caribou	No	---	---	---	---	---
CnA: Colton gravelly sandy loam, dark materials, 0 to 2 perc ent slopes	Colton	No	---	---	---	---	---
CnB: Colton gravelly sandy loam, dark materials, 2 to 8 perc ent slopes	Colton	No	---	---	---	---	---
CnC: Colton gravelly sandy loam, dark materials, 8 to 15 per cent slopes	Colton	No	---	---	---	---	---
CnD: Colton gravelly sandy loam, dark materials, 15 to 25 pe rcent slopes	Colton	No	---	---	---	---	---
CnE: Colton gravelly sandy loam, dark materials, 25 to 45 pe rcent slopes	Colton	No	---	---	---	---	---
CoA: Conant silt loam, 0 to 2 percent slopes	Conant	No	---	---	---	---	---
CoB: Conant silt loam, 2 to 8 percent slopes	Conant	No	---	---	---	---	---
CoC: Conant silt loam, 8 to 15 percent slopes	Conant	No	---	---	---	---	---

Hydric Soils List - Continued

Aroostook County, Maine, Southern Part

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Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
DaA: Daigle silt loam, 0 to 2 percent slopes	Daigle	No	---	---	---	---	---
DaB: Daigle silt loam, 2 to 8 percent slopes	Daigle	No	---	---	---	---	---
DaC: Daigle silt loam, 8 to 15 percent slopes	Daigle	No	---	---	---	---	---
GP: Gravel pits	Pits	No	---	---	---	---	---
Ha: Hadley silt loam	Hadley	No	---	---	---	---	---
HoA: Howland gravelly loam, 0 to 2 percent slopes	Howland	No	---	---	---	---	---
HoB: Howland gravelly loam, 2 to 8 percent slopes	Howland	No	---	---	---	---	---
HoC: Howland gravelly loam, 8 to 15 percent slopes	Howland	No	---	---	---	---	---
HvB: Howland very stony loam, 0 to 8 percent slopes	Howland	No	---	---	---	---	---
HvC: Howland very stony loam, 8 to 15 percent slopes	Howland	No	---	---	---	---	---
LnB: Linneus silt loam, 0 to 8 percent slopes	Linneus	No	---	---	---	---	---
LnC: Linneus silt loam, 8 to 15 percent slopes	Linneus	No	---	---	---	---	---
LnD: Linneus silt loam, 15 to 35 percent slopes	Linneus	No	---	---	---	---	---
MaA: Machias gravelly loam, 0 to 2 percent slopes	Machias	No	---	---	---	---	---
MaB: Machias gravelly loam, 2 to 8 percent slopes	Machias	No	---	---	---	---	---

Hydric Soils List - Continued

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Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
MaC: Machias gravelly loam, 8 to 15 percent slopes	Machias	No	---	---	---	---	---
Md: Made land	Made Land	No	---	---	---	---	---
MhB: Mapleton shaly silt loam, 0 to 8 percent slopes	Mapleton	No	---	---	---	---	---
MhC: Mapleton shaly silt loam, 8 to 15 percent slopes	Mapleton	No	---	---	---	---	---
MhD: Mapleton shaly silt loam, 15 to 35 percent slopes	Mapleton	No	---	---	---	---	---
MmC: Mapleton very rocky silt loam, 0 to 15 percent slopes	Mapleton	No	---	---	---	---	---
MmD: Mapleton very rocky silt loam, 15 to 35 percent	Mapleton	No	---	---	---	---	---
Mn: Mixed alluvial land	Mixed Alluvial Land Pd	Yes	Flood Plain	2B3	Yes	No	No
	Mixed Alluvial Land Vpd	Yes	Flood Plain	2B3,3,4	Yes	Yes	Yes
MoA: Monarda and burnham silt loams, 0 to 2 percent slopes	Monarda	Yes	Ground Moraine	2B3	Yes	No	No
	Burnham	Yes	Ground Moraine	2B3,3	Yes	No	Yes
MoB: Monarda and burnham silt loams, 2 to 8 percent slopes	Monarda	Yes	Ground Moraine	2B3	Yes	No	No
	Burnham	Yes	Ground Moraine	2B3,3	Yes	No	Yes
MrB: Monarda and burnham very stony silt loams, 0 to 8 percent slopes	Monarda	Yes	Ground Moraine	2B3	Yes	No	No
	Burnham	Yes	Ground Moraine	2B3,3	Yes	No	Yes
Pa: Peat and muck	Muck	Yes	Swamp	1	No	No	No
	Peat	Yes	Swamp	1	No	No	No

Hydric Soils List - Continued

Aroostook County, Maine, Southern Part

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Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
PeA: Perham gravelly silt loam, 0 to 2 percent slopes	Perham	No	---	---	---	---	---
PeB: Perham gravelly silt loam, 2 to 8 percent slopes	Perham	No	---	---	---	---	---
PeC: Perham gravelly silt loam, 8 to 15 percent slopes	Perham	No	---	---	---	---	---
PeD: Perham gravelly silt loam, 15 to 25 percent slopes	Perham	No	---	---	---	---	---
PgB: Plaisted gravelly loam, 0 to 8 percent slopes	Plaisted	No	---	---	---	---	---
PgC: Plaisted gravelly loam, 8 to 15 percent slopes	Plaisted	No	---	---	---	---	---
PgD: Plaisted gravelly loam, 15 to 25 percent slopes	Plaisted	No	---	---	---	---	---
PrB: Plaisted very stony loam, 0 to 8 percent slopes	Plaisted	No	---	---	---	---	---
PrC: Plaisted very stony loam, 8 to 15 percent slopes	Plaisted	No	---	---	---	---	---
PrD: Plaisted very stony loam, 15 to 25 percent slopes	Plaisted	No	---	---	---	---	---
PrE: Plaisted very stony loam, 25 to 45 percent slopes	Plaisted	No	---	---	---	---	---
PvB: Plaisted and howland very stony loams, 0 to 8 percent slopes	Plaisted	No	---	---	---	---	---
	Howland	No	---	---	---	---	---
PvC: Plaisted and howland very stony loams, 8 to 15 percent slopes	Plaisted	No	---	---	---	---	---
	Howland	No	---	---	---	---	---

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Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
RaA: Red hook and atherton silt loams, 0 to 2 percent slopes	Red Hook	Yes	Outwash Plain	2B3	Yes	No	No
	Atherton	Yes	Outwash Plain	2B3,3	Yes	No	Yes
RaB: Red hook and atherton silt loams, 2 to 8 percent slopes	Red Hook	Yes	Outwash Plain	2B3	Yes	No	No
	Atherton	Yes	Outwash Plain	2B3,3	Yes	No	Yes
SgA: Stetson gravelly loam, 0 to 2 percent slopes	Stetson	No	---	---	---	---	---
SgB: Stetson gravelly loam, 2 to 8 percent slopes	Stetson	No	---	---	---	---	---
ThB: Thorndike shaly silt loam, 0 to 8 percent slopes	Thorndike	No	---	---	---	---	---
ThC: Thorndike shaly silt loam, 8 to 15 percent slopes	Thorndike	No	---	---	---	---	---
ThD: Thorndike shaly silt loam, 15 to 25 percent slopes	Thorndike	No	---	---	---	---	---
ThE: Thorndike shaly silt loam, 25 to 45 percent slopes	Thorndike	No	---	---	---	---	---
TkB: Thorndike very rocky silt loam, 0 to 8 percent slopes	Thorndike	No	---	---	---	---	---
TkC: Thorndike very rocky silt loam, 8 to 15 percent slopes	Thorndike	No	---	---	---	---	---
TkD: Thorndike very rocky silt loam, 15 to 25 percent	Thorndike	No	---	---	---	---	---
TkE: Thorndike very rocky silt loam, 25 to 45 percent	Thorndike	No	---	---	---	---	---
TsB: Thorndike and howland soils, 0 to 8 percent slopes	Thorndike	No	---	---	---	---	---

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Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria		
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria
TsB: Thorndike and howland soils, 0 to 8 percent slopes	Howland	No	---	---	---	---	---
TsC: Thorndike and howland soils, 8 to 15 percent slopes	Thorndike	No	---	---	---	---	---
	Howland	No	---	---	---	---	---
W: Water bodies	Water	Yes	Lake	---	---	---	---
Wn: Winooski silt loam	Winooski	No	---	---	---	---	---